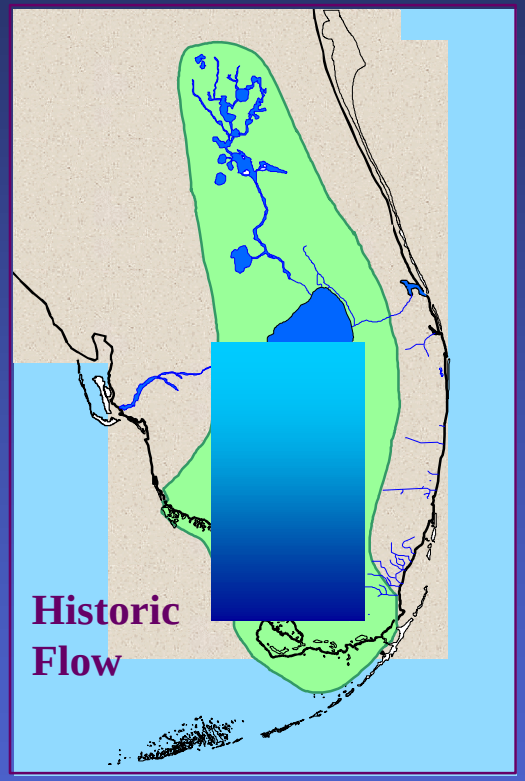
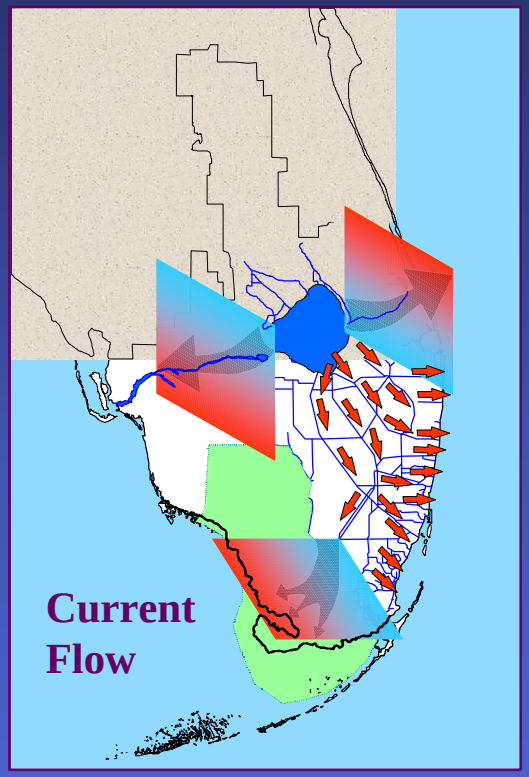
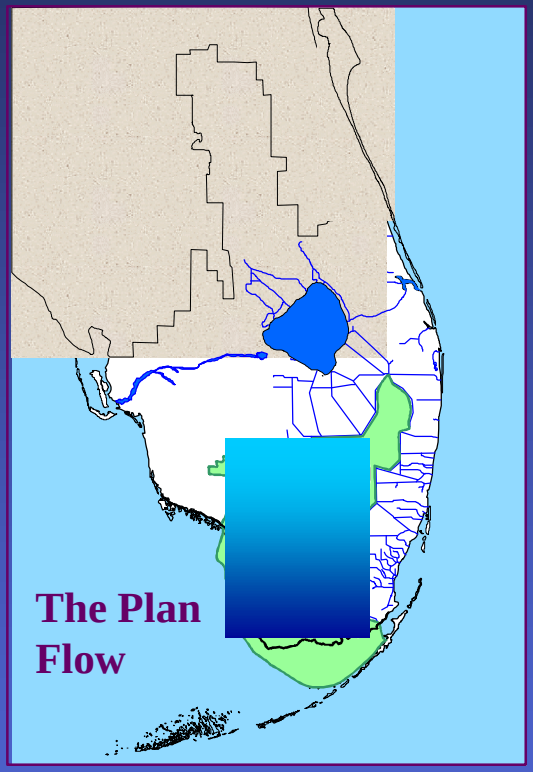
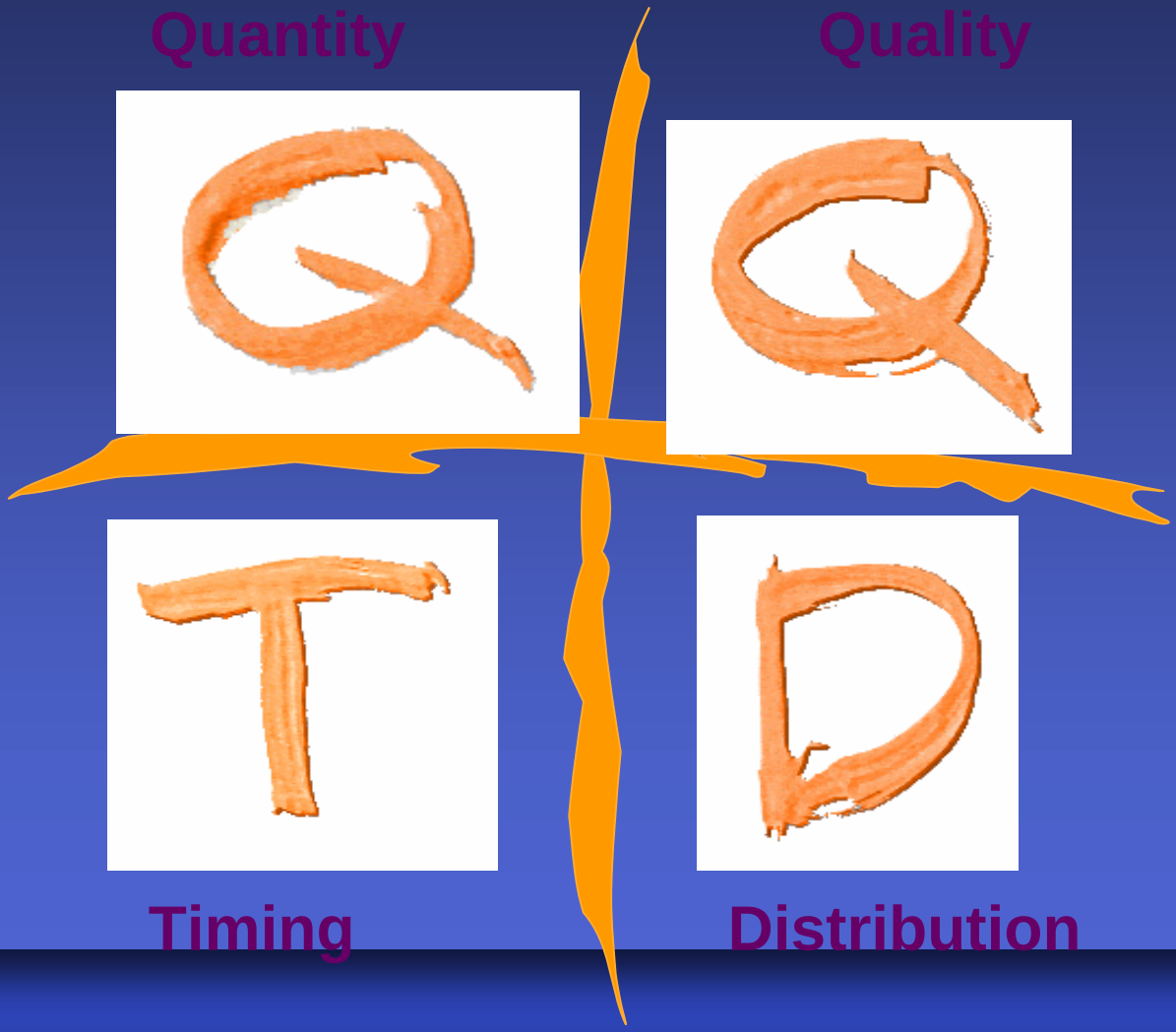
# WATER FLOW PATTERNS



# Getting The Water Right



CENTRAL AND SOUTHERN FLORIDA PROJECT
COMPREHENSIVE REVIEW STUDY

# FINAL
# INTEGRATED FEASIBILITY REPORT AND PROGRAMMATIC ENVIRONMENTAL IMPACT STATEMENT

*April 1999*

# Comprehensive Everglades Restoration Plan

- Aquifer Storage and Recovery
- Surface Water Storage Reservoir
- Stormwater Treatment Areas
- Seepage Management
- Removing Barriers to Sheetflow
- Operational Changes
- Reuse Wastewater

# Fresh water will be stored in the underground aquifer

Aquifer Storage and Recovery

# 180,000 acres will be able to store more water

Aquifer Storage and Recovery

Surface Water Storage Reservoir

# 35,600 acres of manmade wetlands will treat runoff

Aquifer Storage and Recovery

Surface Water Storage Reservoir

Stormwater Treatment Areas

# Barriers will slow water loss to the eastern coast

Aquifer Storage and Recovery

Surface Water Storage Reservoir

Stormwater Treatment Areas

Seepage Management

# Selected canals and levees will be removed

Aquifer Storage and Recovery

Surface Water Storage Reservoir

Stormwater Treatment Areas

Seepage Management

Removing Barriers to Sheetflow

# Operational changes will be made to water delivery

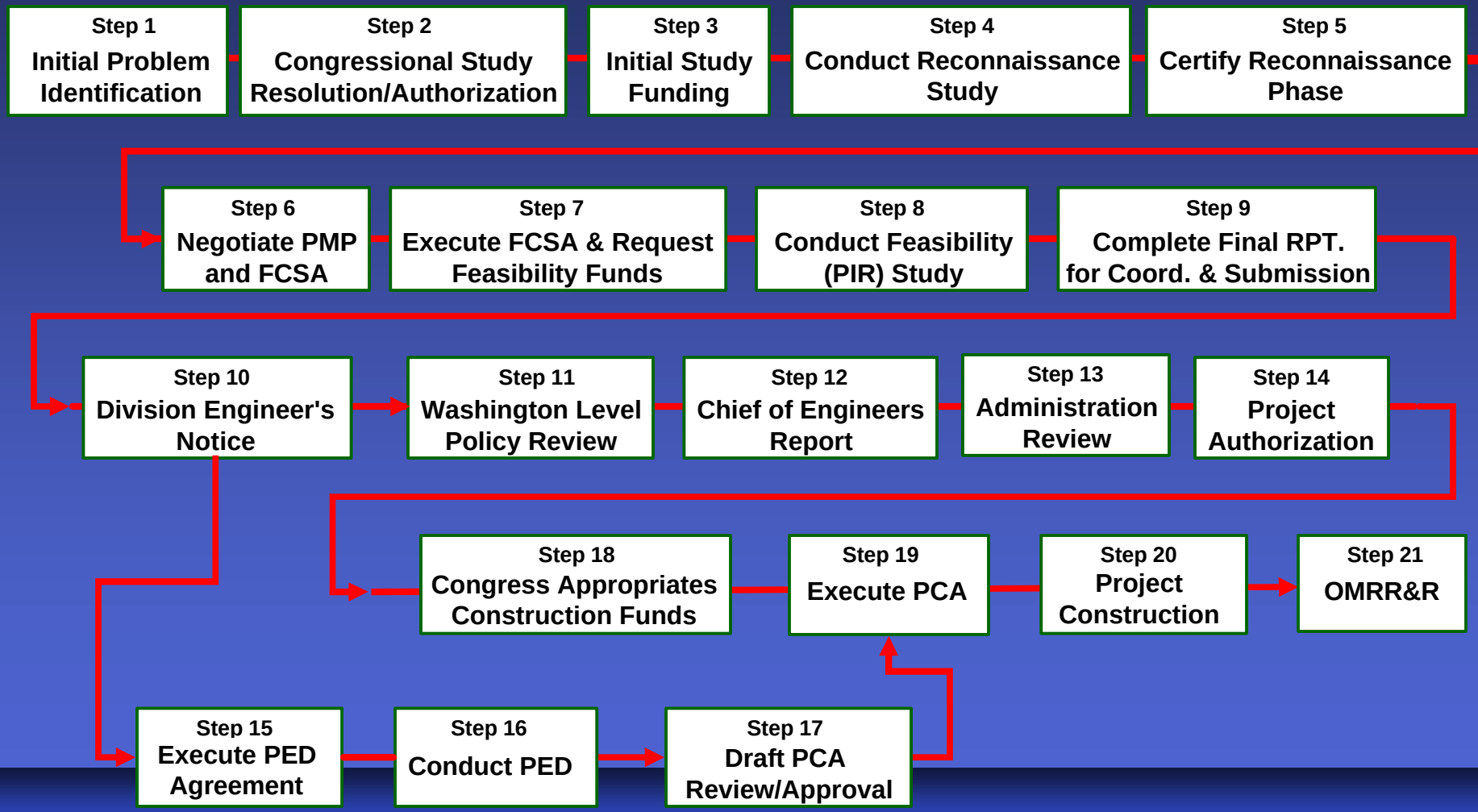
- Aquifer Storage and Recovery
- Surface Water Storage Reservoir
- Stormwater Treatment Areas
- Seepage Management
- Removing Barriers to Sheetflow
- Operational Changes

# Two wastewater reuse plants are proposed

- Aquifer Storage and Recovery
- Surface Water Storage Reservoir
- Stormwater Treatment Areas
- Seepage Management
- Removing Barriers to Sheetflow
- Operational Changes
- Reuse Wastewater

# Corps Study Process

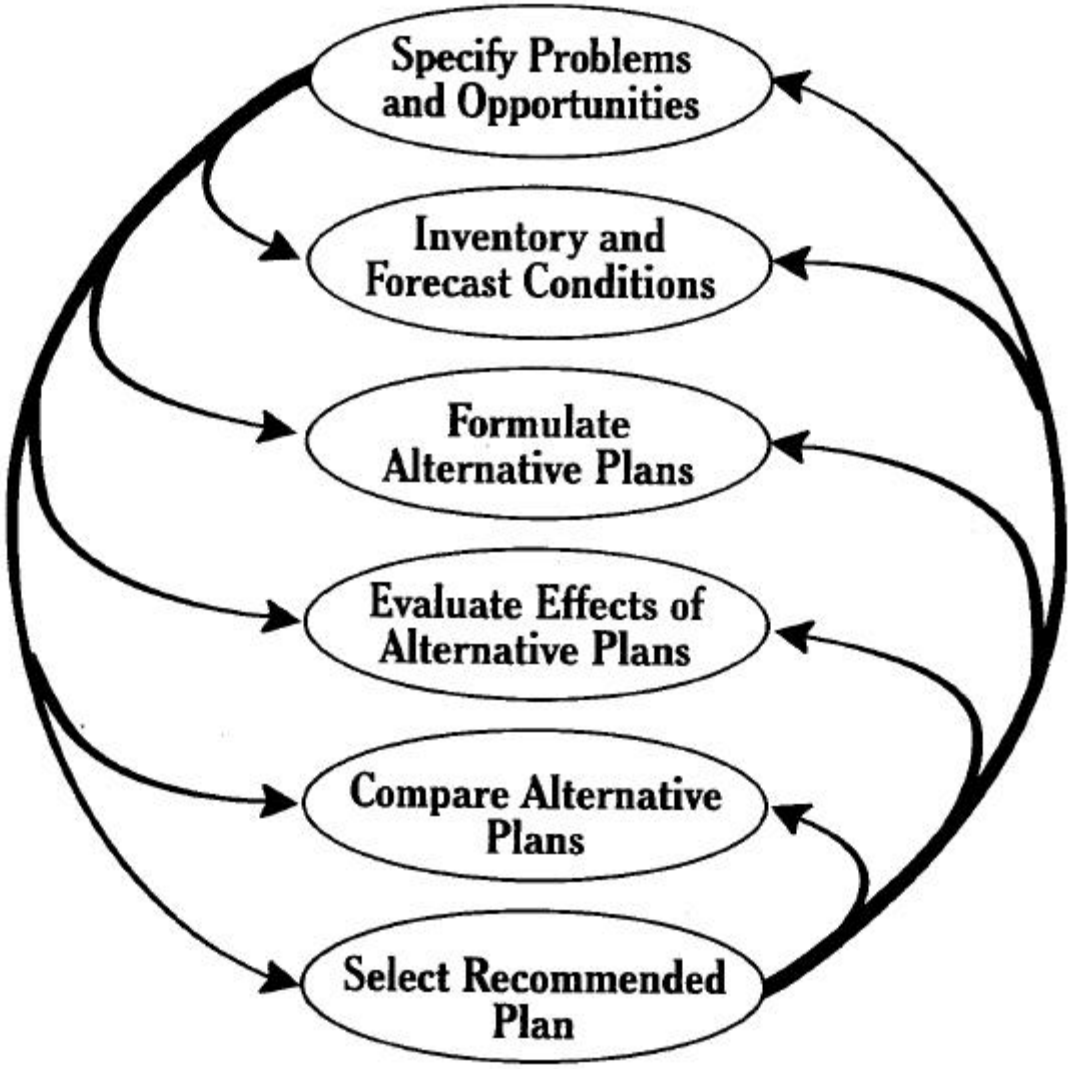
# Civil Works
# Project Delivery Process



# 6-Step Planning Process

1. Specify Problems & Opportunities
2. Inventory & Forecast Conditions
3. Formulate Alternative Plans
4. Evaluate Effects of Alternative Plans
5. Compare Alternative Plans
6. Selection Recommended Plan

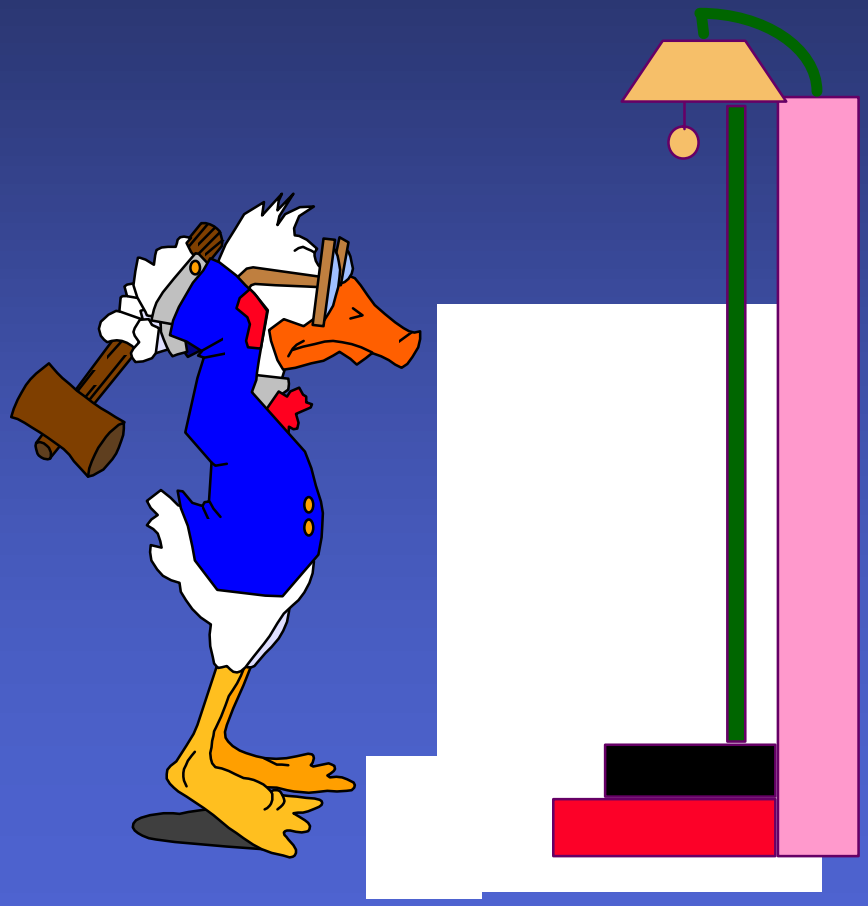
# PLANNING PROCESS



# Screening and Evaluation Criteria

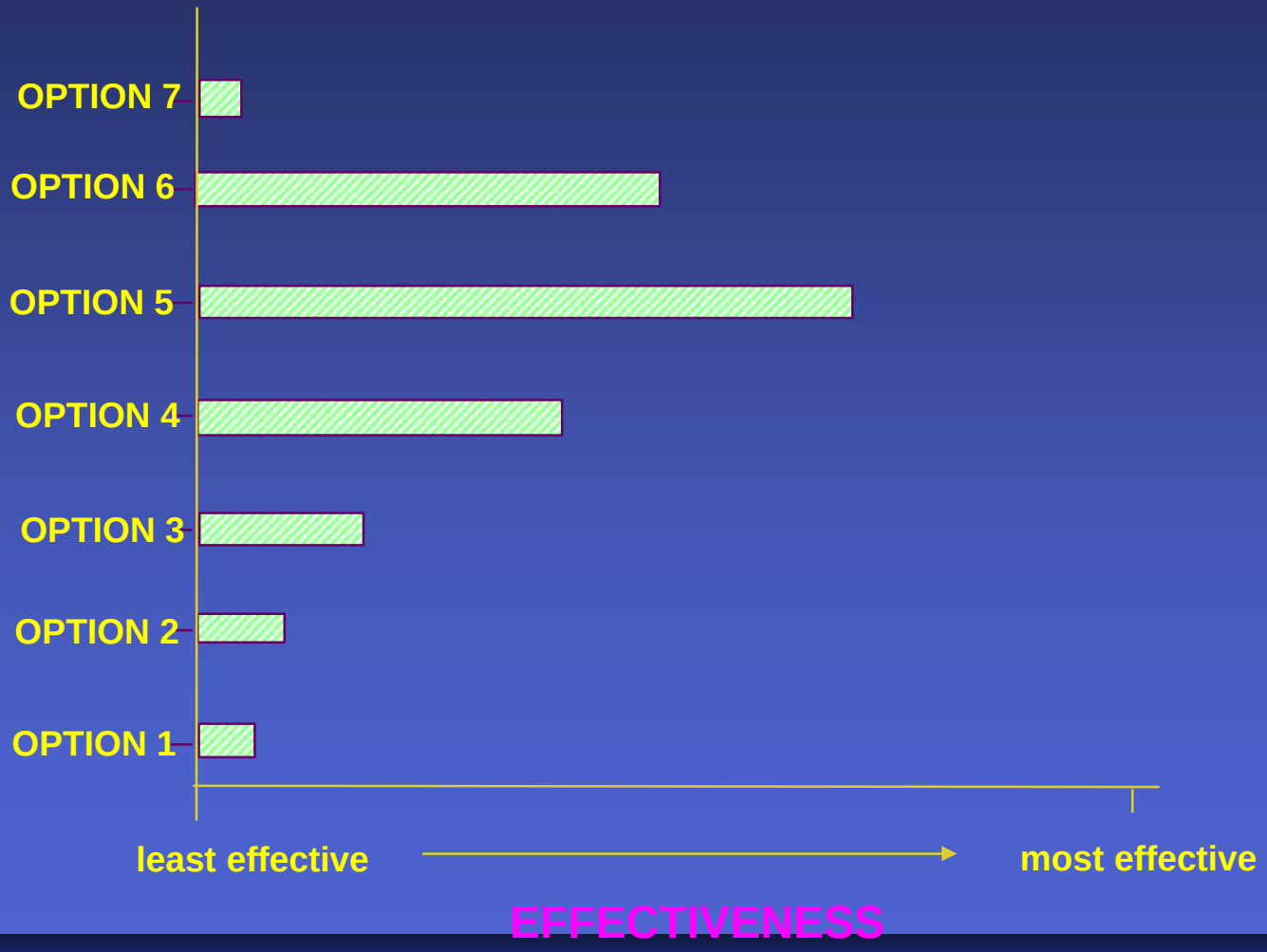
- **Effectiveness** - to what extent meets objectives
- **Efficiency** - how cost-effectively meets objectives
- **Acceptability** - satisfactory and implementable
- **Completeness** - needed for realization of objectives

# SCREENING AND EVALUATION CRITERIA



“EFFECTIVENESS”

# Screening and Evaluation Criteria
# “Effectiveness”



# SCREENING AND EVALUATION CRITERIA

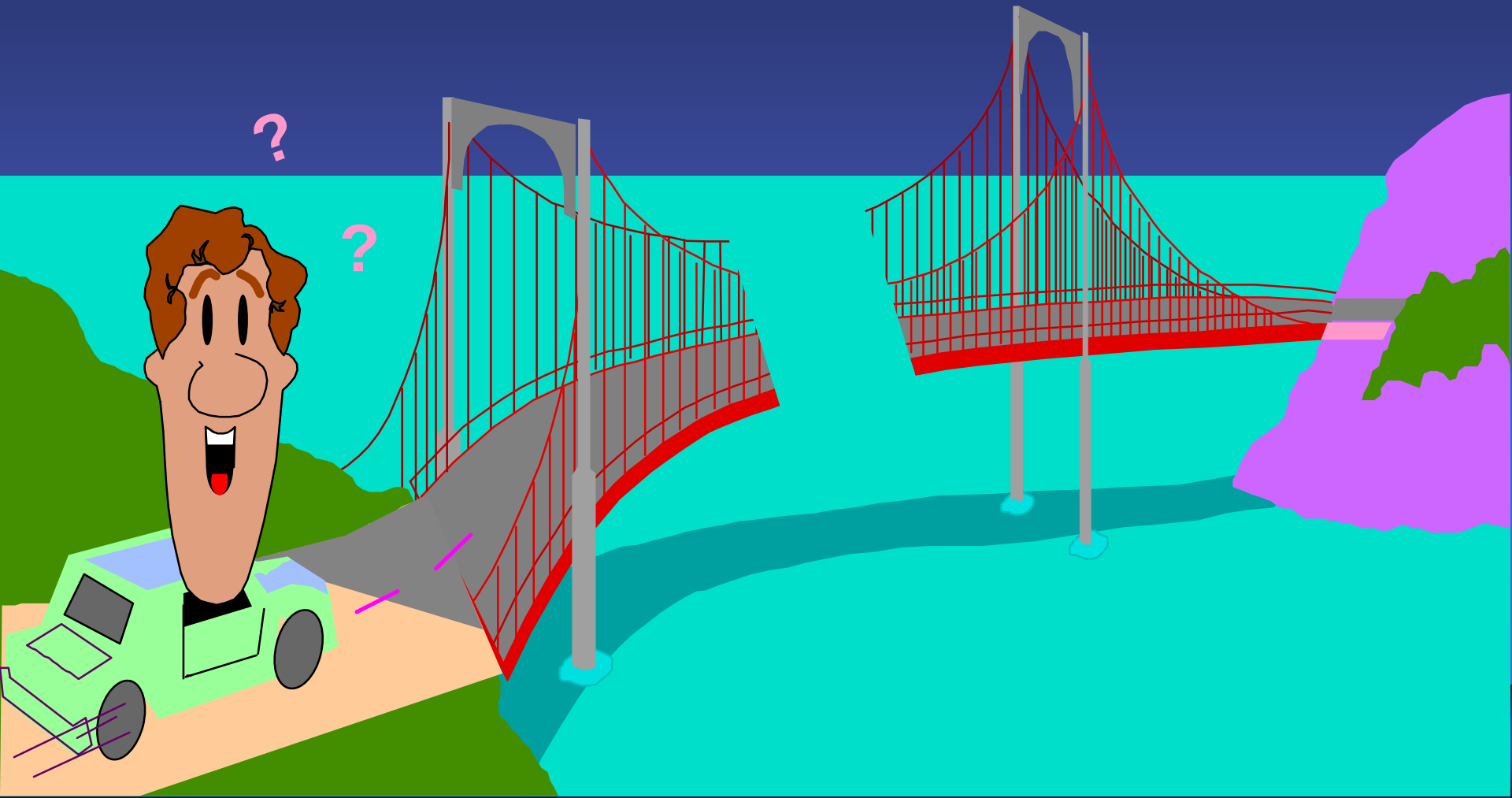
## “EFFICIENCY”

# SCREENING AND EVALUATION CRITERIA

"ACCEPTABILITY"

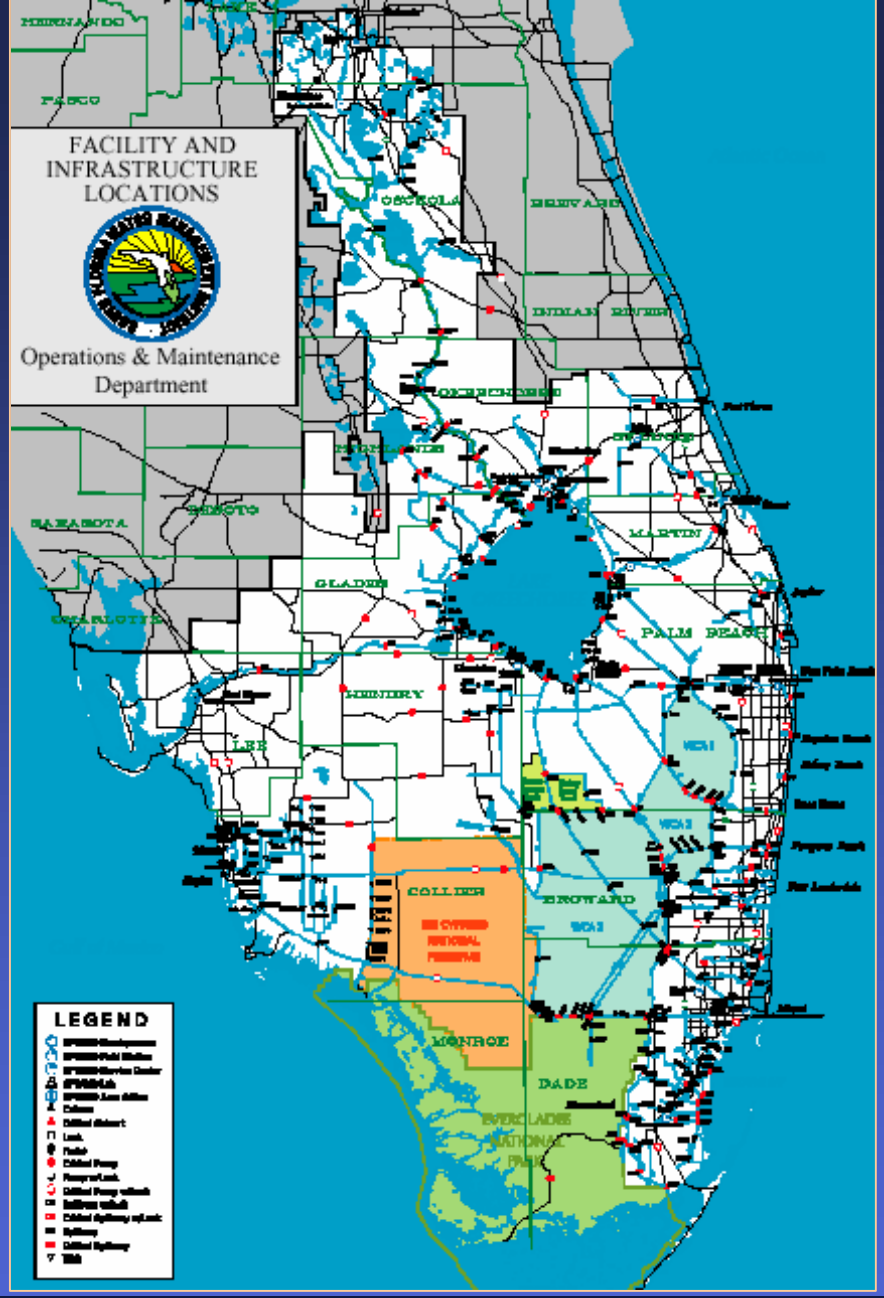
# SCREENING AND EVALUATION CRITERIA

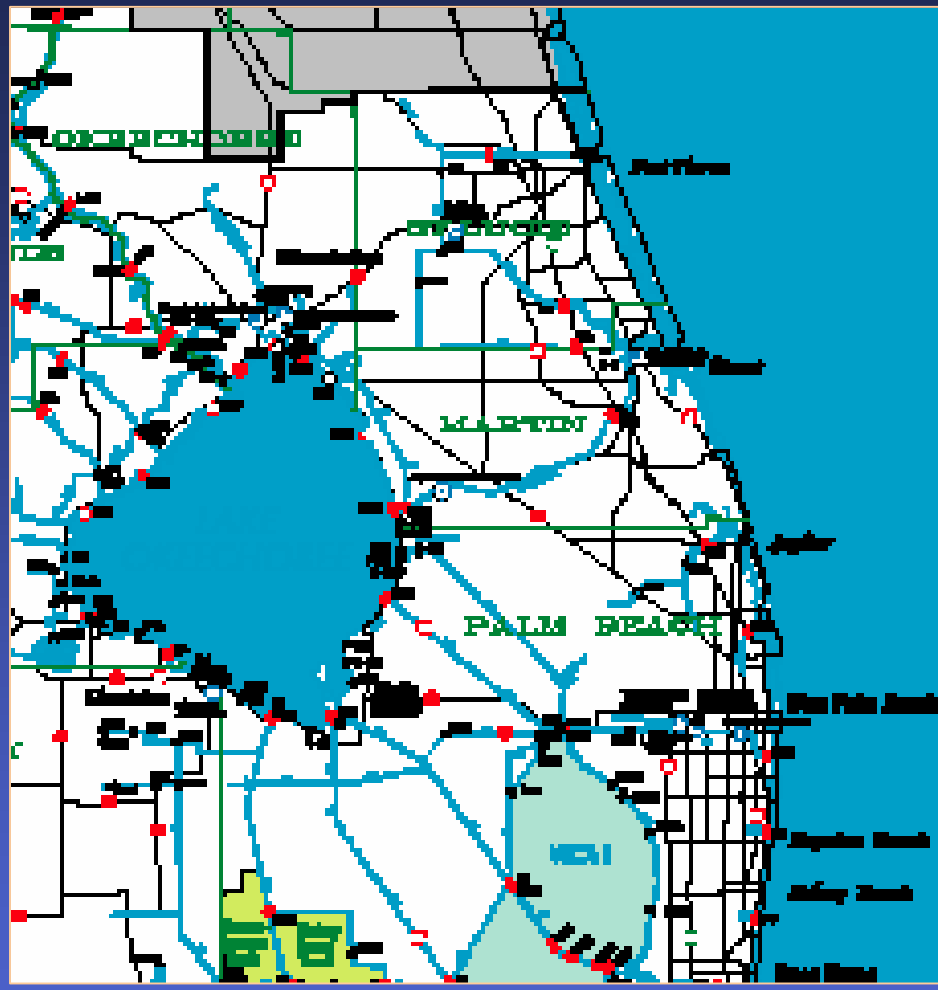
## "COMPLETENESS"

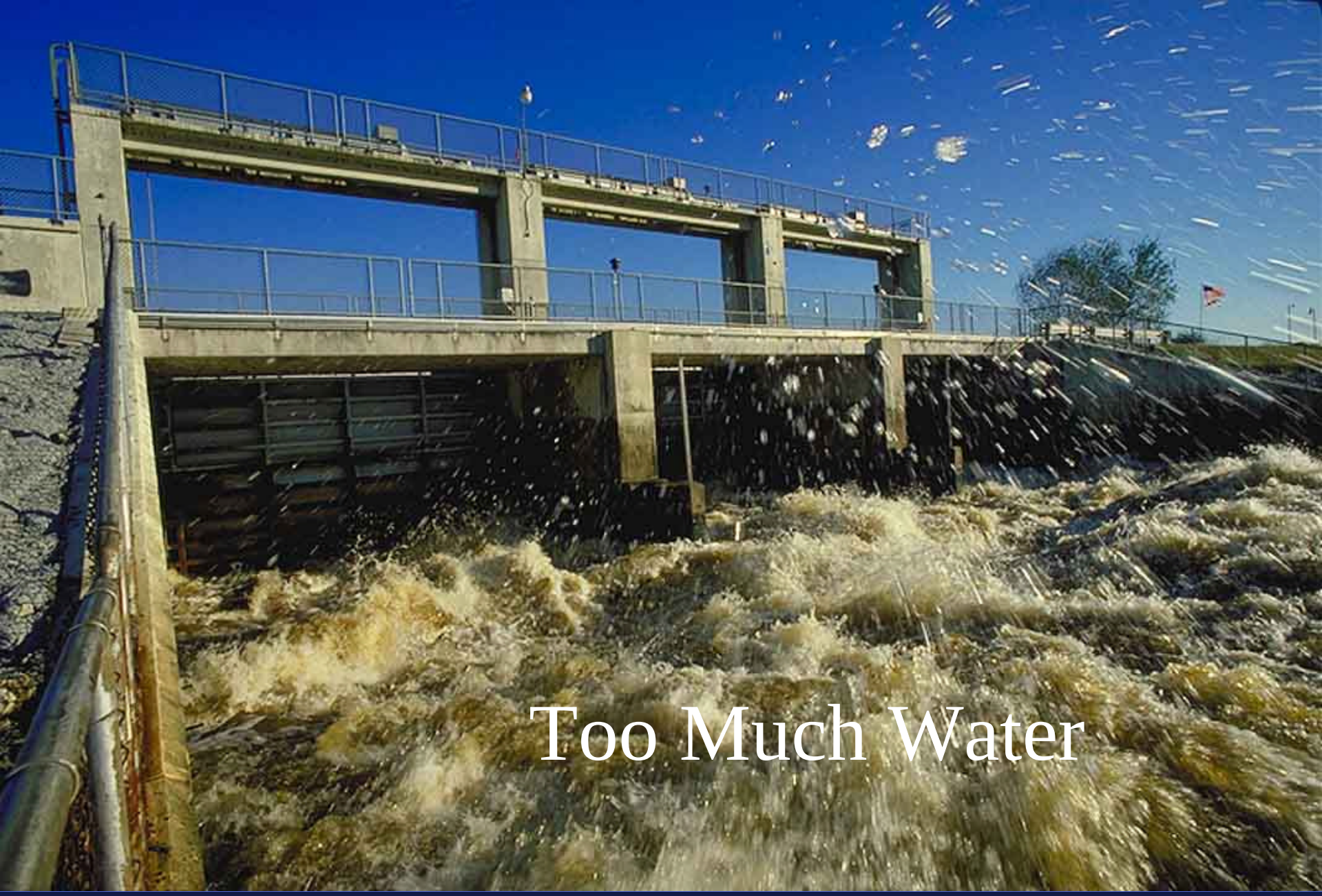


# Corps of Engineers Planning Process

*www.usace.army.mil/publications/*

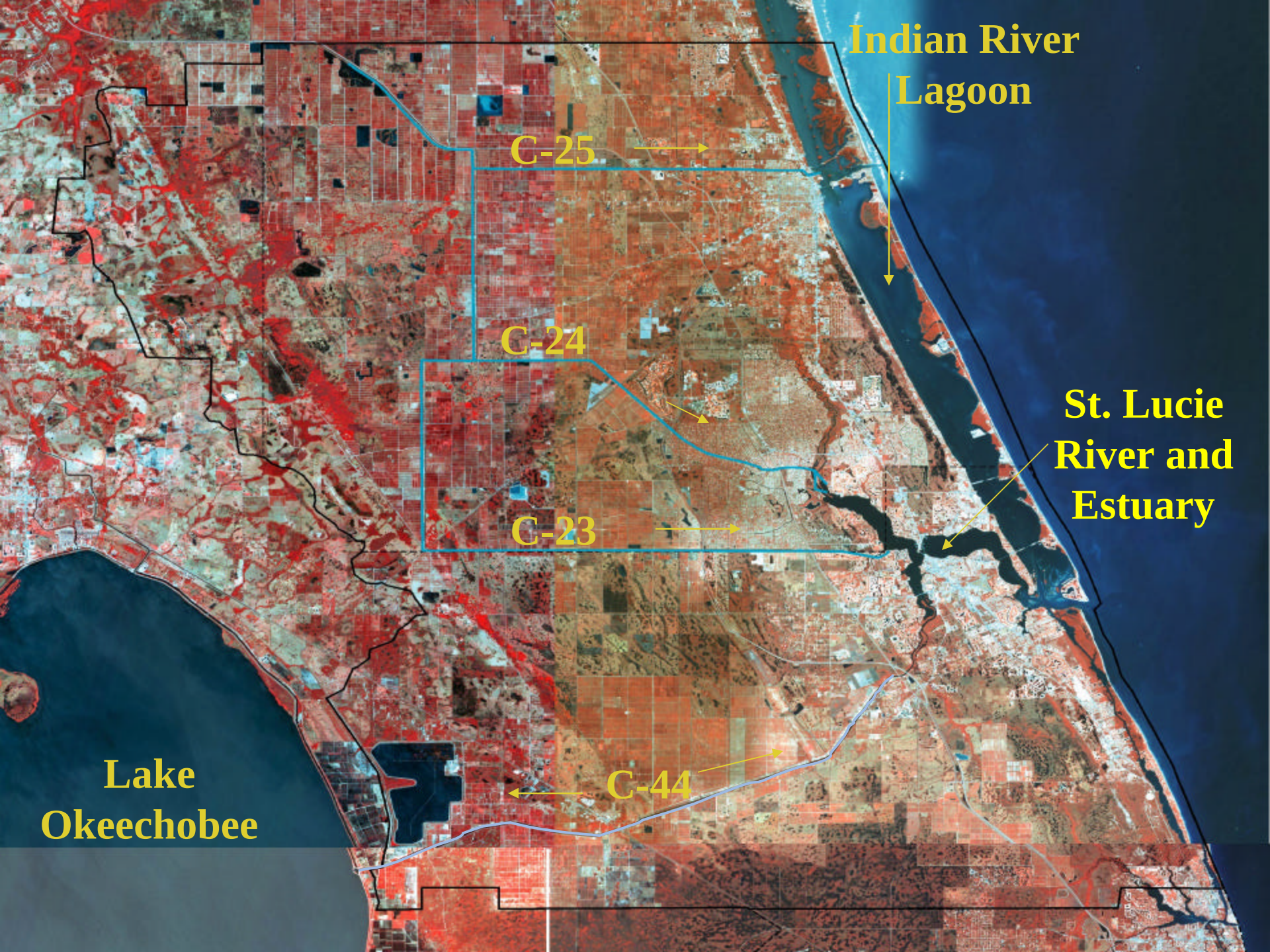

FACILITY AND
INFRASTRUCTURE
LOCATIONS
Operations & Maintenance
Department
HERNANDO
PASCO
OSCEOLA
BREVARD
INDIAN RIVER
OKEECHOBEE
MARTIN
SARASOTA
DESOTO
GLADES
PALM BEACH
CHARLOTTE
HENDRY
LEE
COLLIER
BROWARD
MONROE
DADE
LEGEND


OKEECHOBEE
MARTIN
PALM BEACH

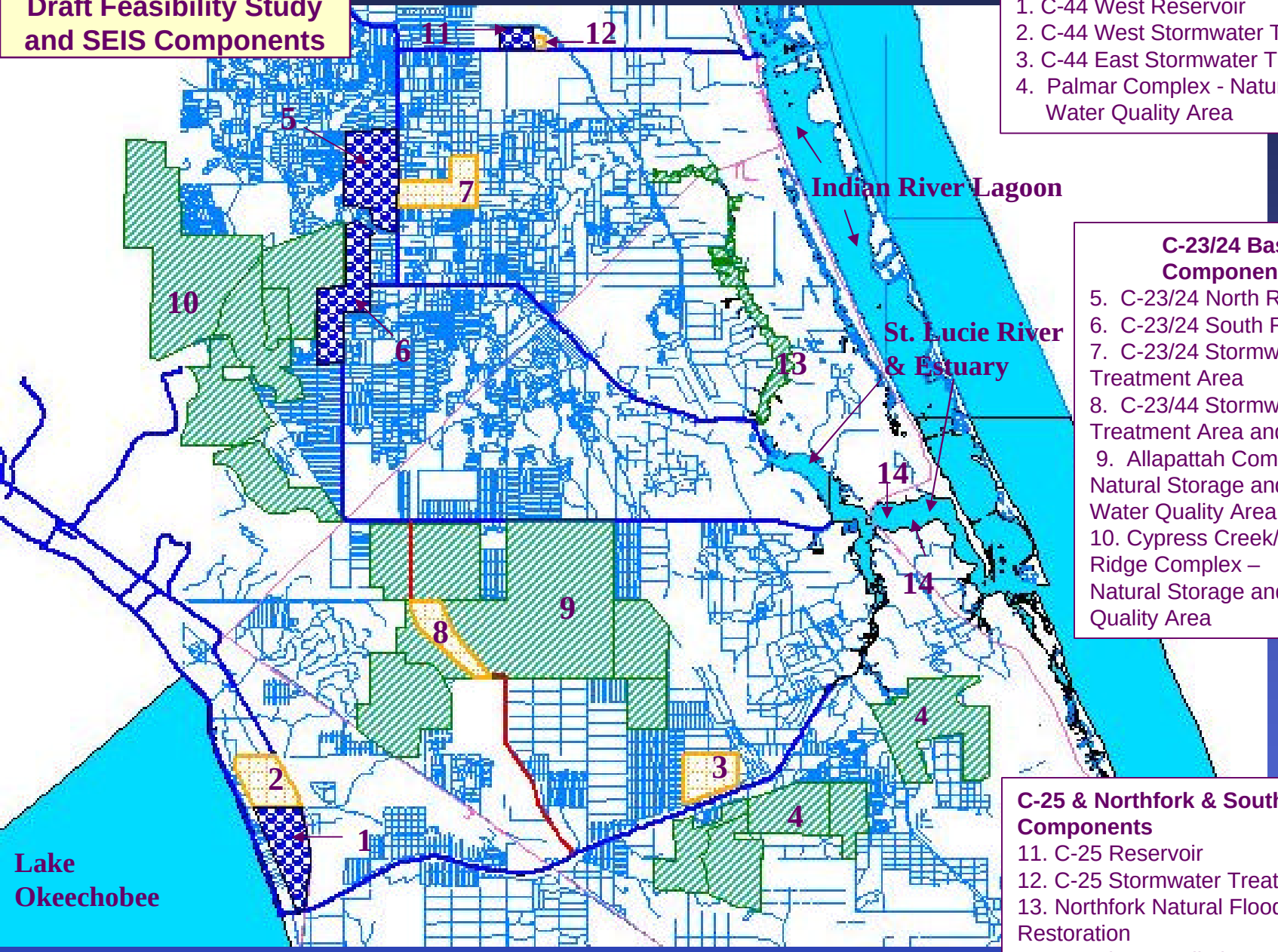

Too Much Water


Too Little Water

# Poor Water Quality


Indian River
Lagoon
C-25
C-24
C-23
St. Lucie
River and
Estuary
Lake
Okeechobee
C-44

# Indian River Lagoon South
# Draft Feasibility Study and SEIS Components




**C-44 Basin Components**

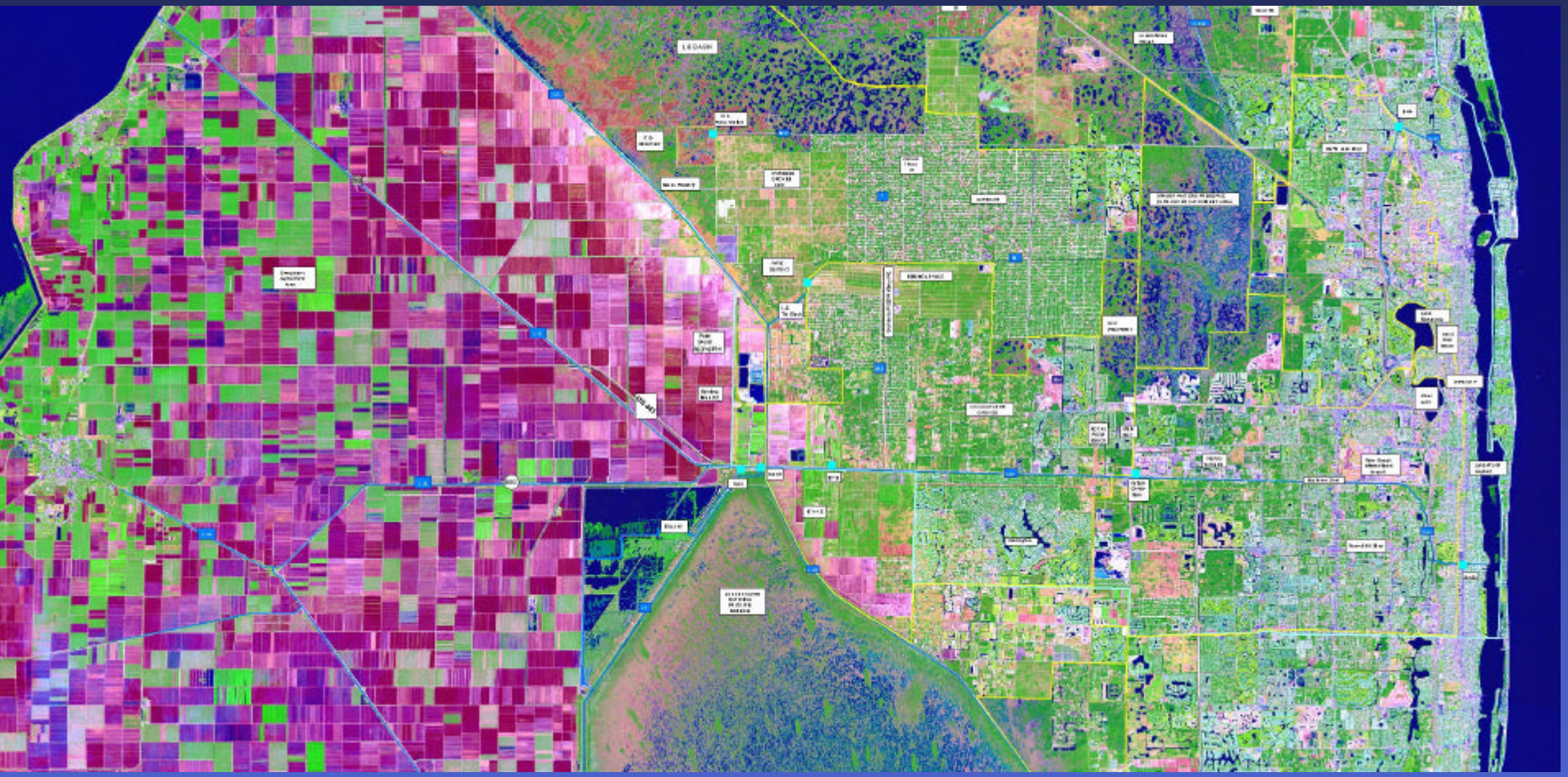
1. C-44 West Reservoir
2. C-44 West Stormwater Treatment Area
3. C-44 East Stormwater Treatment Area
4. Palmar Complex - Natural Storage and Water Quality Area

**C-23/24 Basin Components**

5. C-23/24 North Reservoir
6. C-23/24 South Reservoir
7. C-23/24 Stormwater Treatment Area
8. C-23/44 Stormwater Treatment Area and Canal
9. Allapattah Complex Natural Storage and Water Quality Area
10. Cypress Creek/Trail Ridge Complex – Natural Storage and Water Quality Area

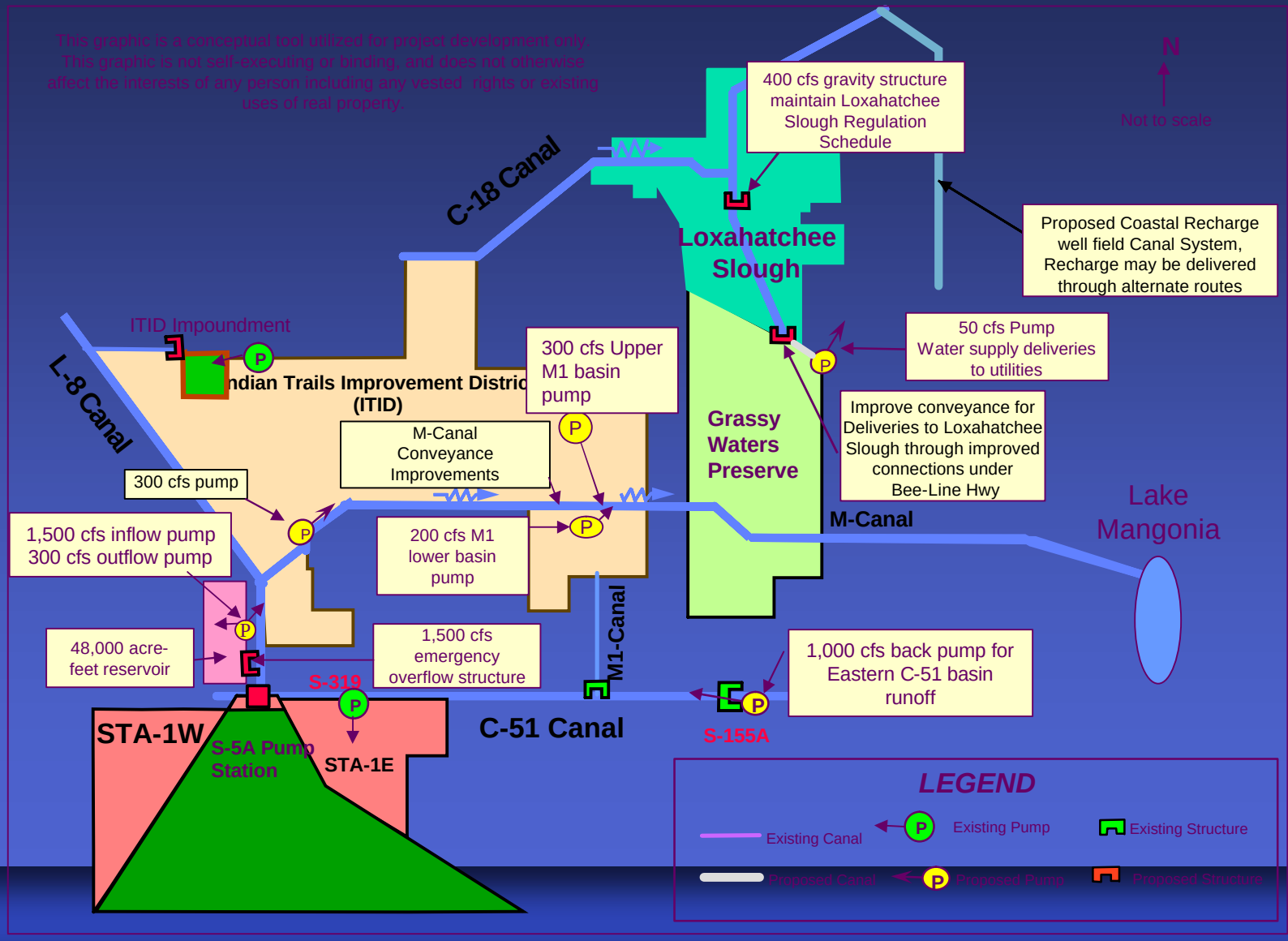
**C-25 & Northfork & Southfork Basin Components**

11. C-25 Reservoir
12. C-25 Stormwater Treatment Area
13. Northfork Natural Floodplain Restoration
14. Muck Remediation & Artificial Habitat

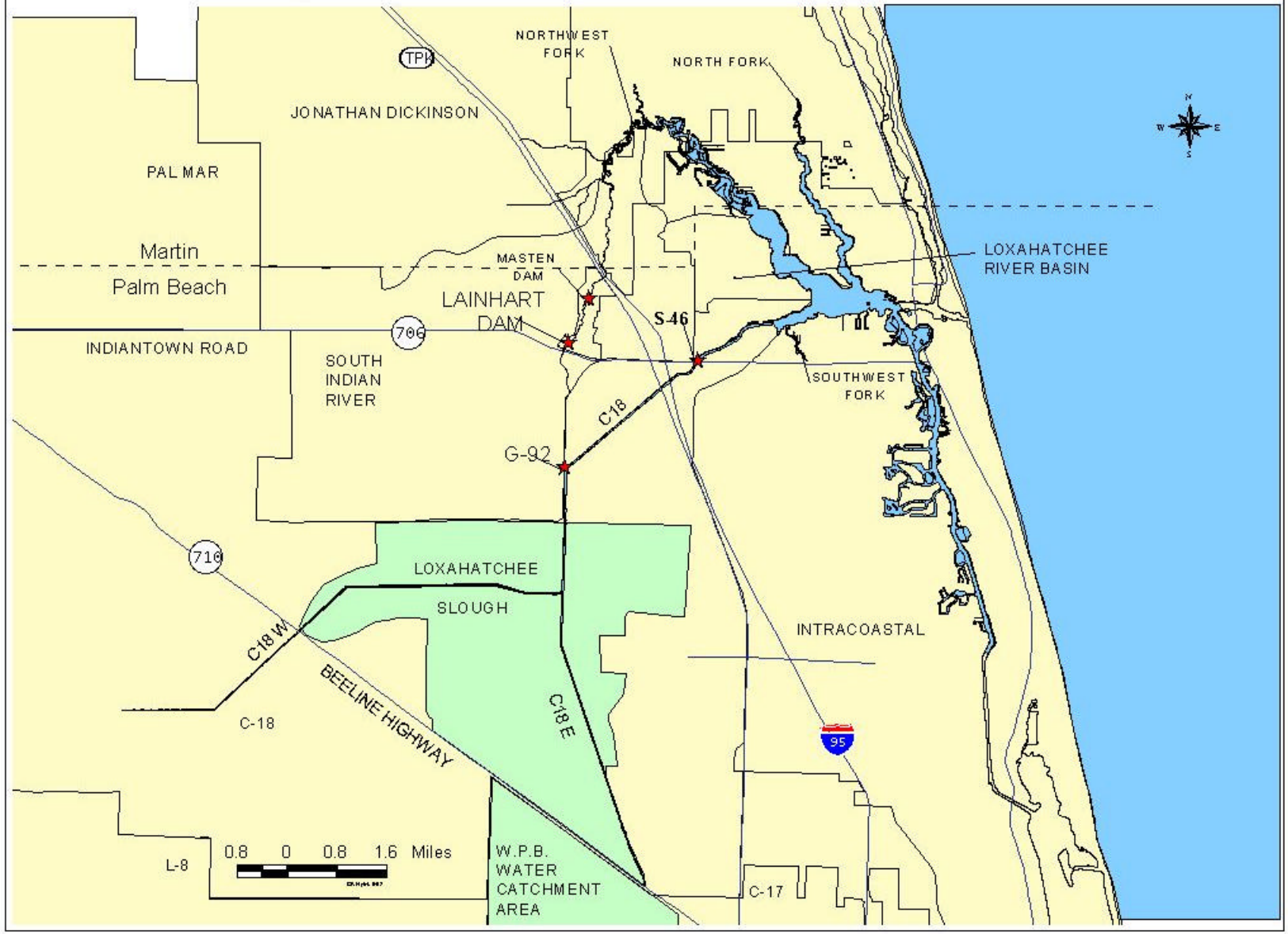


# L-8 Basin Modification - Conceptual Plan

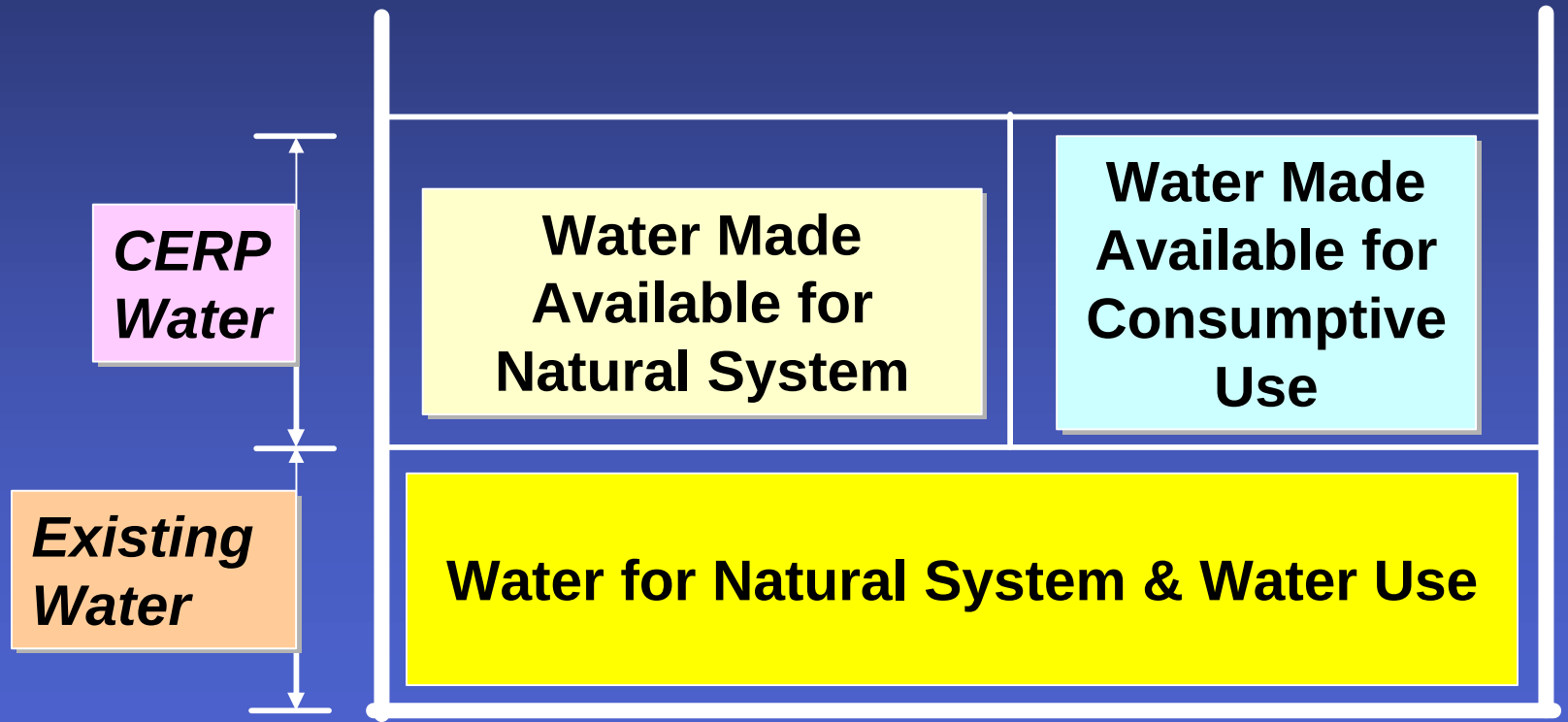
(to be modified by Project Delivery Team as needed during Project Implementation Report Phase)



# Major Features of the Loxahatchee Watershed



# "Federal & State Assurances:
## "Identify & Protect the Regional Water Supply"



# Water Resources Development Act of 2000

- Approved the Comprehensive Everglades Restoration Plan (CERP).
- Prohibited the elimination or transfer of existing legal sources of water, including those for agricultural, urban water supply, and the natural system.
- Required agreement with State to ensure that water made available by each project in the Plan would not be permitted for a consumptive use until the water for the restoration of the natural system was reserved under State law.